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Erratum

Erratum to: “Search for particles decaying into a Z boson and a photon in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”
[Phys. Lett. B 641 (2006) 415]

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The limits on the production of $Z\gamma$ resonant states published by the DØ Collaboration in 2006 [1] require a correction by a

factor of two. While preparing a new result [2] with a larger data set and improved techniques, we discovered an error that resulted in an underestimate of the limits on $Z\gamma$ production. This error arose from double counting in the limit calculation when the two decay channels were combined. The corrected limits on $\sigma(p\bar{p} \rightarrow X) \times B(X \rightarrow Z\gamma)$ range from 0.8–7.0 pb at 95% Confidence Level (C.L.) for $Z\gamma$ states with invariant masses between 100 GeV/ c^2 and 1000 GeV/ c^2 . Figs. 1 and 2 show corrected version of the curves shown in Figs. 4–6 of the original Letter.

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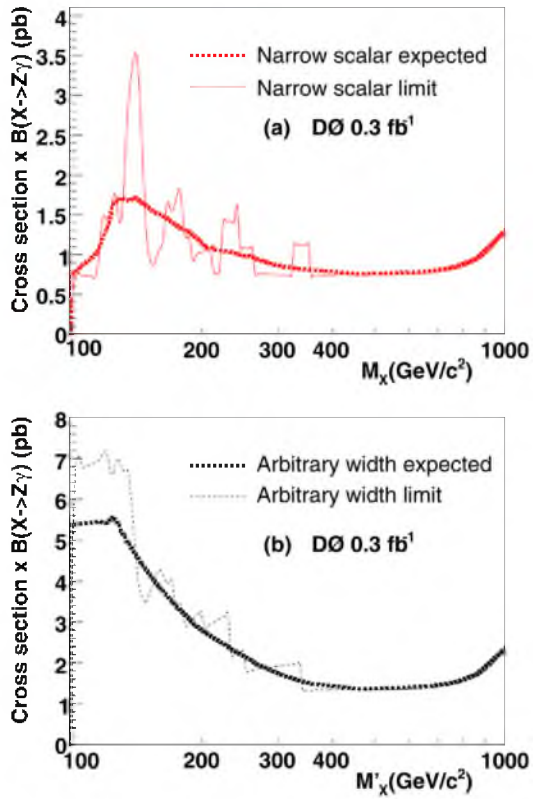


Fig. 1. The expected and observed cross section times branching fraction 95% C.L. limit for a scalar X decaying into $Z\gamma$ as a function of the mass M_X for (a) a narrow scalar and (b) as a function of the median mass M'_X for a scalar of arbitrary width.

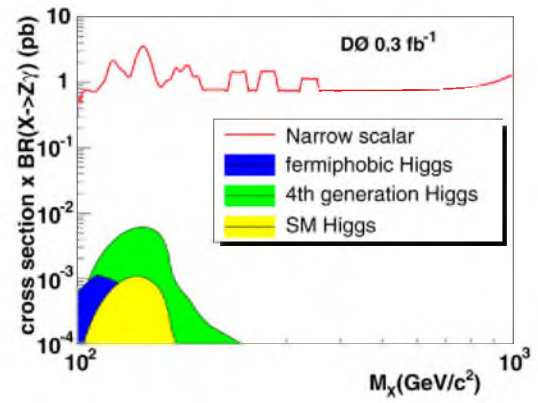


Fig. 2. The cross section times branching fraction 95% C.L. limit for a scalar X decaying into $Z\gamma$ as a function of the mass M_X .

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